

VERSION DESCRIPTION DOCUMENT FOR THE NASA PROPERTY DISPOSAL MANAGEMENT SYSTEM (NPDMS)

Release 2.7.1

NASA-NPDMS-VDD-14

PrISMS Contract

November 17, 2000



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT FOR THE
NASA PROPERTY DISPOSAL MANAGEMENT SYSTEM (NPDMS)
RELEASE 2.7.1**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
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1. INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for this release of the NASA Property Disposal Management System (NPDMS). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as NPDMS, Release 2.7.1 and has an effective release date of November 17, 2000.

1.2 PURPOSE OF THE RELEASE

This release implements modifications for the following Change Control Requests (CCRs):

<u>CCR</u>	<u>Title</u>
411	GSA – Donation Eligibility

This release implements modifications necessitated by the following Discrepancy Reports (DRs):

<u>CCR</u>	<u>Title</u>
414	Controlled add from NEMS history missing 2 fields

1.3 SCOPE

This VDD provides the functional and technical user of NPDMS with information regarding the content, status, and structure of Release 2.7.1, including the following:

- Changes implemented since Release 2.7;
- Validation procedures to ensure the reliability of release changes;
- References to other documentation affected by this release;
- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for NPDMS is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Use following Key Words: SESAAS & NPDMS)

Telephone: (256) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (256) 544-1836

2. FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT and SYSERR changes related to this release.

2.2 FUNCTIONAL INTERFACES

This section is not applicable for this release.

2.3 CRITICAL ISSUES

This section is not applicable for this release.

2.4 AFFECTED DOCUMENTS

The following documents are affected by this release:

None

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3. TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

There are no technical system interface issues with this release.

3.2 DATA DICTIONARY CHANGES

Refer to Appendix D, Section 4.1, for the data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Section 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NPDMS Software Release 2.7.1 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4. KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A - ABBREVIATIONS AND ACRONYMS

CC	Consolidation Center
CCR	Change Control Request
CSC	Computer Sciences Corporation
DBA	Database Administrator
DR	Discrepancy Report
FAX	Electronic Facsimile Transmission
IRM	Information Resources Management
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NEMS	NASA Equipment Management System
NPDMS	NASA Property Disposal Management System
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document

APPENDIX B - GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a NASA software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a NASA application release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with a NASA application.

APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures for changes in this release:

Section	CCR	Title
1.0	411	GSA – Donation Eligibility
2.0	414	Controlled add from NEMS history missing 2 fields

Details for the validation procedures follow:

1.0 CCR 411 – GSA – Donation Eligibility.

Currently all items sent to GSA are marked with a 'Y' in the ##DONATION-ELIGIBILITY field. If an item is an exchange-sale item, the exchange sale indicator is moved to the ##EXCHANGE-CODE. Otherwise, an 'N' is moved to the ##EXCHANGE-CODE. GSA changed the edit criteria so that if a 'Y' is in the exchange code field then the item is not eligible for donation.

Description of Change

Code was changed to move 'N' to ##DONATION-ELIGIBILITY when Reimbursement code is (1,4,5,8,A,E,F) otherwise a 'Y' is moved to ##DONATION-ELIGIBILITY.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Perform a non-controlled add transaction. Fill in Reimbursement Code with a '1'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a '4'. Fill in Exc/Sale with a 'Y'.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a '5'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a '8'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a 'A'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a 'E'. Fill in Exc/Sale with a 'Y'.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a 'F'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a '2'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a '6'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.
- Perform a non-controlled add transaction. Fill in Reimbursement Code with a 'B'. Leave Exc/Sale blank.
Expected results: A Non-Controlled add is executed.

- Schedule the 110 report.
Expected results: The first seven transactions have a 'N' in the Donation field and the last three transactions have a 'Y' in the Donation field on the output from the 110 report.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NDR110PA	GSA Dataset Generation	Program
NDR110PB	GSA Dataset Generation	Program

2.0 CCR 414 – Controlled add from NEMS history missing 2 fields.

When a controlled add is performed pulling the NEMS information from the NEMS History file, the NEMS-ERN-NMBR and NEMS-EQUIP-SUBINST-NMBR are not populated. This is causing a fatal error when a case is disposed of.

Description of Change

Code was changed to populate the NEMS-ERN-NMBR and NEMS-EQUIP-SUBINST-NMBR for controlled adds from the NEMS history file.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Perform an add on an ECN that is present in the NEMS History file and has been deleted with transaction 71 (Survey (Missing Equipment)) using the ECN number.
Expected results: A Controlled add is executed.
- Perform a non-controlled add transaction.
Expected results: A Non-Controlled add is executed.
 - Fill in fields on the Non-Controlled add screen using the model number and serial number for the ECN in the NEMS History file that was deleted with a transaction 71 (Survey(Missing Equipment)).
Expected results: A window is displayed indicating that a match for the model number and serial number was found in the NEMS History file.
 - Enter 'N' to leave the case as non-controlled.
Expected results: A Non-Controlled Add is executed.
- Perform a non-controlled add transaction.
Expected results: A Non-Controlled add is executed.
 - Fill in fields on the Non-Controlled add screen using the model number and serial number for the ECN in the NEMS History file that was deleted with a transaction 71 (Survey(Missing Equipment)).
Expected results: A window is displayed indicating that a match for the model number and serial number was found in the NEMS History file.
 - Enter 'Y' to convert the case to controlled.
Expected results: A Controlled Add is executed using the ECN from the History file.
- Perform an add on an ECN that is present in the NEMS History file and has been deleted with transaction 65 (Transfer to another NASA installation) using the ECN number.
Expected results: A Controlled add is executed.
- Perform a non-controlled add transaction.
Expected results: A Non-Controlled add is executed.
 - Fill in fields on the Non-Controlled add screen using the model number and serial number for the ECN in the NEMS History file that

was deleted with a transaction 65 (Transfer to another NASA installation).

Expected results: A window is displayed indicating that a match for the model number and serial number was found in the NEMS History file.

- Enter 'N' to leave the case as non-controlled.
Expected results: A Non-Controlled Add is executed.
- Perform a non-controlled add transaction.
Expected results: A Non-Controlled add is executed.
 - Fill in fields on the Non-Controlled add screen using the model number and serial number for the ECN in the NEMS History file that was deleted with a transaction 65 (Transfer to another NASA installation).
Expected results: A window is displayed indicating that a match for the model number and serial number was found in the NEMS History file.
 - Enter 'Y' to convert the case to controlled.
Expected results: A Controlled Add is executed using the ECN from the History file.
- Perform an add on an ECN that is present in the NEMS Equipment file using the ECN number.
Expected results: A Controlled add is executed.
- Perform a non-controlled add transaction.
Expected results: A Non-Controlled add is executed.
 - Fill in fields on the Non-Controlled add screen using the model number and serial number for the ECN that is in the NEMS Equipment file
Expected results: A window is displayed indicating that a match for the model number and serial number was found in the NEMS Equipment file.
 - Enter 'N' to leave the case as non-controlled.
Expected results: A Non-Controlled Add is executed.
- Perform a non-controlled add transaction.
Expected results: A Non-Controlled add is executed.
 - Fill in fields on the Non-Controlled add screen using the model number and serial number for the ECN that is in the NEMS Equipment file.
Expected results: A window is displayed indicating that a match for the model number and serial number was found in the NEMS Equipment file.
 - Enter 'Y' to convert the case to controlled.
Expected results: A Controlled Add is executed using the ECN from the Equipment file.
- Perform a receipt on all of the above transactions.
Expected results: A receipt is executed.
- Perform a disposition on all of the above transactions.
Expected results: A disposition is executed.
- Perform a case review on all of the previous dispositions.

- Expected results: All of the controlled adds should have ECNs in the ECN field and the non-controlled adds should have nothing in the ECN field.
- In NEMS, perform a NEMS adhoc on each of the ECNs above.
Expected results: All of the ECNs that were deleted with the 71 transactions should have X19 and X90 transactions.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
ND4110TB	On-line Add	Text
ND4110PA	On-line Add	Program
NDXNEMPA	NEMS interface with NPDMS	Program
NDX500PA	EDITS for dispositions and freezes	Program
NDNEMHLA	NEMS-History local	Local
NDXNEMNB	Retrieve NEMS History Data	Subpgm
NDXNEMSA	Non-controlled to controlled with Mfg and Serial No.	Subrtn

APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NPDMS SOFTWARE RELEASE 2.7.1

Introduction

Release information:

System Name: NPDMS
Release Number: 2.7.1
Release Date: November 17, 2000
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NPDMS)

Telephone: (256) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (256) 544-1836

The following datasets are located on the transient storage DASD volumes under the following data sets names:

xxMOV.NPDMS.PROD.R271.R1100.DOC
xxMOV.NPDMS.PROD.R271.R1100.SRC

Where "xx" is replaced by the appropriate NASA Center designation.

AR - ARC
DF - DFRC
GS - GSFC
HQ - HQ
J5 - JSC
KS - KSC
LA - LaRC
LE - GRC (Glenn)
MS - MSFC
SS - SSC

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all NPDMS files as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Copy Source Code

Load the NPDMS source library from dataset:

xxMOV.NPDMS.PROD.R271.R1100.SRC.

The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library NPDMS, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules by Type	Count
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	1
MAPS	0
HELP ROUTINES	0
SUBROUTINES	1
SUBPROGRAMS	1
PROGRAMS	5
COPYCODE	0
TEXT	1
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	9

2.2 List of Source Code Modifications

The following are the modules added, modified, and deleted.

Added Modules:

There are no modules added with this release.

Changed Modules:

1. ND4110PA Program
2. ND4110TB Text
3. NDR110PA Program
4. NDR110PB Program
5. NDXNEMPA Program
6. NDXNEMNB Subprogram
7. NDXNEMSA Subroutine
8. NDNEMHLA Local
9. NDX500PA Program

Deleted Modules:

There are no modules deleted with this release.

3.0 Pre-Predict Data Conversion

Not applicable with this release.

4.0 Install Predict

Not applicable with this release.

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all modules in the NPDMS or other named library. **IT IS NOT NECESSARY** to catalog the Global Data Area. The NASA Batch Standard Parameters should be used for the compile.

After all objects are compiled, the NPDMS application will run under the NASA On-line Standard Parameter.

6.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
 - 2.1 Copy Source Code
 - 2.2 List of Source Code Modifications
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code